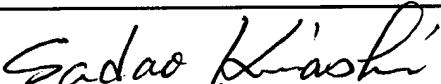| U.S. DEPARTMENT OF COMMERCE, PATENT AND TRADEMARK OFFICE	DATE: **September 24, 2004**
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371	U.S. Application. No. (if known): **10/509425**

INTERNATIONAL APPLICATION NO.: PCT/JP03/03665	INTERNATIONAL FILING DATE: March 25, 2003	PRIORITY DATE CLAIMED: March 26, 2002

TITLE OF INVENTION: *LUMINESCENT MATERIAL FOR SCINTILLATORS COMPRISING SINGLE CRYSTAL OF Yb-CONTAINING MIXED- CRYSTAL OXIDE*

APPLICANT(S) FOR DO/EO/US: **Tsuguo FUKUDA, Akira YOSHIKAWA and Takashi TSUZAKI**

Applicant hereby submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. **XX**   This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.

2. __   This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.

3. **XX**   This is an express request to begin national examination procedures (35 USC 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.

4. **XX**   The US has been elected (Article 31).

5. **XX**   A copy of the International Application as filed (35 U.S.C. 371(c)(2)):
    a. __   is transmitted herewith (required only if not transmitted by the International Bureau).
    b. **XX**   has been transmitted by the International Bureau.
    c. __   is not required, as the application was filed in the United States Receiving Office (RO/US)

6. **XX**   An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
    a. **XX**   is attached hereto.
    b.__   has been previously submitted under 35 U.S.C. 154(d)(4).

7. **XX**   Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
    a. __   are transmitted herewith (required only if not transmitted by the International Bureau).
    b. __   have been transmitted by the International Bureau.
    c. __   have not been made; however, the time limit for making such amendments has NOT expired.
    d. **XX**   have not been made and will not be made.

8. __   An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).

9. __   An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).

10. __   An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

ITEMS 11. TO 20. BELOW CONCERN OTHER DOCUMENT(S) OR INFORMATION INCLUDED:

11. **XX**   An Information Disclosure Statement under 37 CFR 1.97 and 1.98 together with the international search report, PTO-1449 and 6 references.

12. __   An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
    ASSIGNEE NAME AND ADDRESS: *JAPAN SCIENCE AND TECHNOLOGY AGENCY, Kawaguchi-shi, Japan*
               Please publish the assignee data with the application.

13. **XX** A preliminary amendment.

14. __   An Application Data Sheet under 37 C.F.R. 1.76

15. __ A substitute specification.

16. __ A change of power of attorney and/or address letter.

17. __ A computer-readable form of the sequence listing in accordance with PCT Rule 13*ter*.2 and 37 C.F.R. 1.821 - 1.825.

18. __ A second copy of the published international application under 35 U.S.C. 154(d)(4).

19. __ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

20. **XX** Other items or information: 3 sheets of drawings.

ATTORNEY'S DOCKET NO.: 042592

U.S. APPLICATION 10/509425 INTERNATIONAL APPLICATION NO. PCT/JP03/03665	DATE: September 24, 2004

21. _X_ The following fees are submitted: **Basic National Fee (37 CFR 1.492(a)(1)-(5):** Search Report has been prepared by the EPO or JPO: ....$920.00 International preliminary examination fee paid to USPTO (37 CFR 1.482)...$730.00 No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)) ....$770.00 Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO ....$1080.00 International preliminary examination fee (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4)...$100.00 **ENTER APPROPRIATE BASIC FEE AMOUNT =**	CALCULATIONS	PTO USE ONLY
	$ 920.00	

Surcharge of **$130.00** for furnishing the oath or declaration later than _x_ 30 months from the earliest claimed priority date (37 CFR 1.492(e)).	$ 130.00	

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
TOTAL	2 -20 =		X $ 18.00		
INDEPENDENT	2 - 3 =		X $ 86.00		
Multiple dependent claims(s) (if applicable)			+ $290.00		
TOTAL OF ABOVE CALCULATIONS =				$1,050.00	
Reduction by 1/2 for filing by small entity, if applicable. (Note 37 CFR 1.9, 1.27, 1.28).					
SUBTOTAL =				$1,050.00	
Processing fee of **$130.00** for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)). +					
TOTAL NATIONAL FEE =				$1,050.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). **$40.00 per property +**					
TOTAL FEES ENCLOSED =				$1,050.00	

				Amount to be:
				           refunded
				           charged
					$
					
					$

ATTORNEY'S DOCKET NO.: **042592**

U.S. Application No. (if known) 10/509 425	INTERNATIONAL APPLICATION NO. PCT/JP03/03665	DATE: **September 24, 2004**

a. **XX**   A check in the amount of $1,050.00 to cover the above fees is enclosed. ($920.00 for basic filing fee and $130.00 for late filing of the declaration).

b. ___   Please charge my Deposit Account No. 50-2866 in the amount of $___ to cover the above fees. (A duplicate copy of this sheet is enclosed.)

c. **XX**   The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2866.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed to request that the application be restored to pending status.

Send All Correspondence To:	WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 Connecticut Avenue, N.W. Suite 700 Washington, D.C. 20036 CUSTOMER No. **38834**

Typed or Printed Name: Sadao Kinashi	Reg. No.: 48,075
Signature *Sadao Kinashi*	Date: September 24, 2004

SK/yap